

AMENDMENTS TO THE CLAIMS

Amendments to the claims (this listing replaces all prior versions):

1. (canceled).
2. (canceled).
3. (currently amended) An optical device, comprising:
a projection screen, comprising
a first broadband reflective layer;
a second broadband reflective layer;
substantially continuous layers of dielectric material, each layer consisting essentially of a material having a different index of refraction (n) than the material of an adjacent layer, the layers disposed between the first reflective layer and the second reflective layer, constructed and arranged so that an optical output of the optical device includes substantially more light with wavelengths in a plurality of narrow wavelength bands than light with wavelengths not in the plurality of wavelength bands.
4. (original) An optical device in accordance with claim 3, wherein the first reflective layer is highly reflective so that the optical output is reflected light with wavelengths in the plurality of narrow wavelength bands.
5. (original) An optical device in accordance with claim 4, wherein the first reflective layer comprises aluminum.
6. (original) An optical device in accordance with claim 3, wherein the first reflective layer is partially reflective so that the optical output comprises transmitted light with wavelengths in the plurality of narrow wavelength bands.
7. (original) An optical device in accordance with claim 3, wherein the first reflective layer comprises a substrate comprising a reflective material.

8. (original) An optical device in accordance with claim 7, wherein the first reflective layer comprises a diffuser.
9. (original) An optical device in accordance with claim 8, wherein the first reflective layer comprises aluminum.
10. (original) An optical device in accordance with claim 3, wherein the first reflective layer comprises a diffuser.
11. (original) An optical device in accordance with claim 3, wherein the device has a width, height, and thickness and wherein the width and the height are greater than seven inches.
- 12- 72. (canceled).
73. (currently amended) A method comprising
at a projection screen receiving projected light and ambient light, processing the light, and preferentially reflecting portions of the light that are within at least two narrow spectral bands relative to reflection of light that is not within the narrow spectral bands,
the processing occurring within consecutive layers of higher and lower index-of-refraction materials
wherein the processing the light comprises reflecting the light, by a first and second broadband reflective layer constructed and arranged so that the consecutive layers of higher and lower index of refraction materials are between the first and the second reflective layer, so that light with wavelengths not in the plurality of narrow bands of wavelengths destructively interferes.
74. (previously presented) A method in accordance with claim 73, further comprising polarizing, by a projector, so that the projected light has substantially more light of one linear polarization than of another linear polarization and
polarizing, by the screen, of the projected light and the ambient light so that the screen reflects substantially more of the light of the one linear polarization and absorbs light of the second linear polarization.

75. (previously presented) A method in accordance with claim 73, further comprising projecting the light by a projector that is constructed and arranged to project substantially more light with wavelengths in the plurality of narrow bands of wavelengths than light with wavelengths not in the plurality of narrow bands.
76. (previously presented) An optical device, comprising:
a projection screen, comprising
a first reflective layer and a second reflective layer for reflecting light toward each other through substantially continuous layers of dielectric material, each layer consisting essentially of a material having a different index of refraction (n) than the material of an adjacent layer, so that light of at least one wavelength band destructively interferes in a space between the first reflective layer and the second reflective layer, so that incident light of said at least one wavelength band is attenuated by the device.
77. (currently amended) An optical device ~~in accordance with claim 76~~, comprising a first reflective layer and a second reflective layer for reflecting light toward each other through substantially continuous layers of dielectric material, each layer consisting essentially of a material having a different index of refraction (n) than the material of an adjacent layer, so that light of at least one wavelength band destructively interferes in a space between the first reflective layer and the second reflective layer, so that incident light of said at least one wavelength band is attenuated by the device,
wherein the first reflective layer and the second reflective layer reflect light of all wavelength bands in the visible spectrum.
78. (previously presented) An optical device, comprising:
a projection screen, comprising
a first reflective layer and a second reflective layer, for reflecting light of substantially all wavelengths in the visible spectrum; and
substantially continuous layers of dielectric material, each layer consisting essentially of a material having a different index of refraction (n) than the material

of an adjacent layer, the layers disposed between the first reflective layer and the second reflective layer, constructed and arranged so that an optical output of the optical device includes substantially less light with wavelengths in at least one wavelength bands than an optical input to the optical device.